

## SWP Water Quality Summary

June 11 to July 9, 2008

**Electrical Conductivity:** EC decreased at Banks Pumping Plant (BPP), Check 29, Check 41, Valecitos, Devil Canyon, and Barker Slough, from June 11 to July 9, 2008. Concentrations ranged from 271 uS/cm to 586 uS/cm, but remained below the Article 19 Monthly Average Objective of 440 mg/L (733 uS/cm). Daily average concentrations varied at all the locations. The lowest and highest concentrations of 271 uS/cm and 586 uS/cm occurred at Barker Slough and Check 29. Concentrations decreased this month at BPP from 534 uS/cm to 302 uS/cm). The decrease observed at BPP may be due to low EC concentrations from Sacramento River at Free Port (147 uS/cm on July 9, 2008).

**Bromide:** Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.08 mg/L to 0.31 mg/L. As of July 9, Barker Slough had the lowest concentration of 0.08 mg/L, followed by BPP and Vallecitos with 0.10 mg/L while the highest concentration of 0.25 mg/L occurred at Check 29. Concentration at BPP decreased from 0.26 to 0.10 mg/L as of July 9, 2008.

**Turbidity:** Turbidity levels increased at BPP and Check 41, but decreased at Barker Slough. Turbidity levels ranged from 1 NTU to 67 NTU as of July 9, 2008. The lowest level of 1 NTU occurred at Check 29 and Devil Canyon while the highest level of 67 NTU occurred at Barker Slough on July 9, 2008. BPP mean daily turbidity levels increased to 23 NTU on July 9, 2008.

**Dissolved Organic Carbon(DOC):** Concentrations decreased at Check 13, from 4.2 mg/L to 3.4 mg/L while at Edmonston, DOC increased slightly from 2.0 mg/L to 2.2 mg/L as at July 9, 2008. UVA instrument at BPP is malfunctioning and the field Division staff are in the process of replacing it.

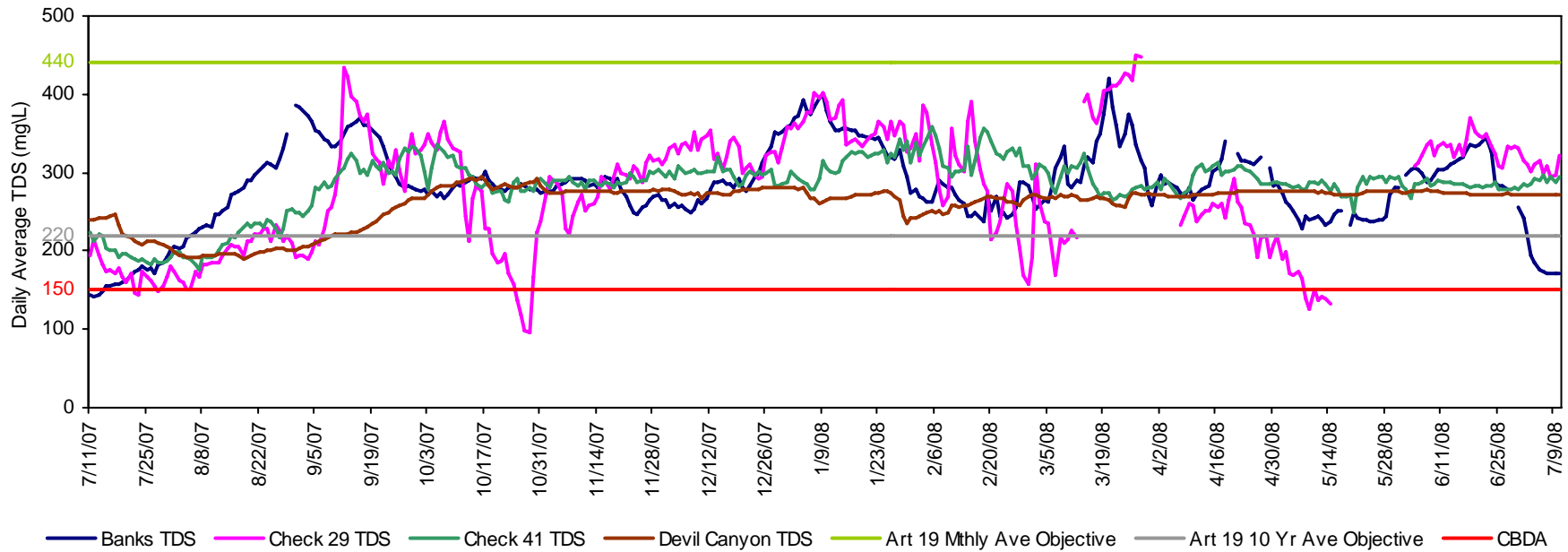
**Taste and Odor Compounds:** MIB and geosmin remain low, ranging from non-detect to 24 ng/L at Clifton Court, BPP, Del Valle Check 7, Check 41, Check 66, Silverwood Lake and Lake Perris. As at July 7, 2008, Check 66 had the greatest concentration of geosmin at 24 ng/L.

**Pump\_ins:** Pumpins to the State Water Project (SWP) from the Banking Programs (Alvin Edison, Kern Water Banks, Cross Valley Canal, Semi-tropic 3, and Westlands Water District) this month added a total volume of 43,668 acre feet (AF).

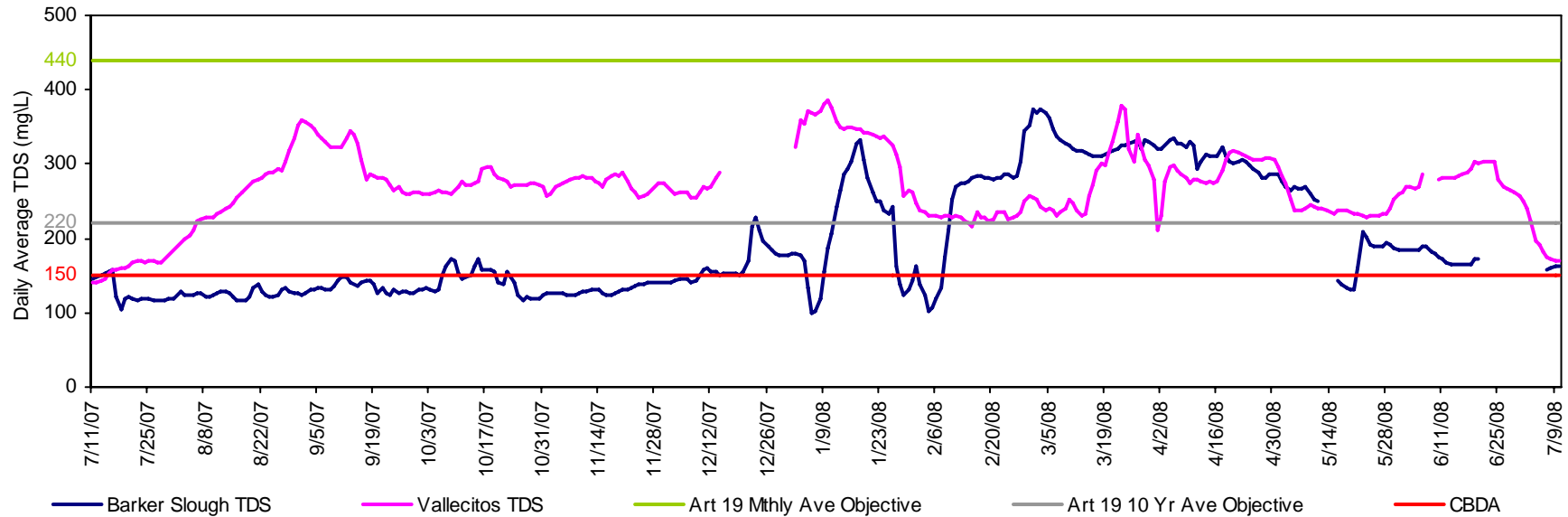
**Note:**

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientist and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from any of the 15 automated stations along the SWP, visit: <http://www.womwq.water.ca.gov> and click the “Autostation Data” link on the left side navigation bar.

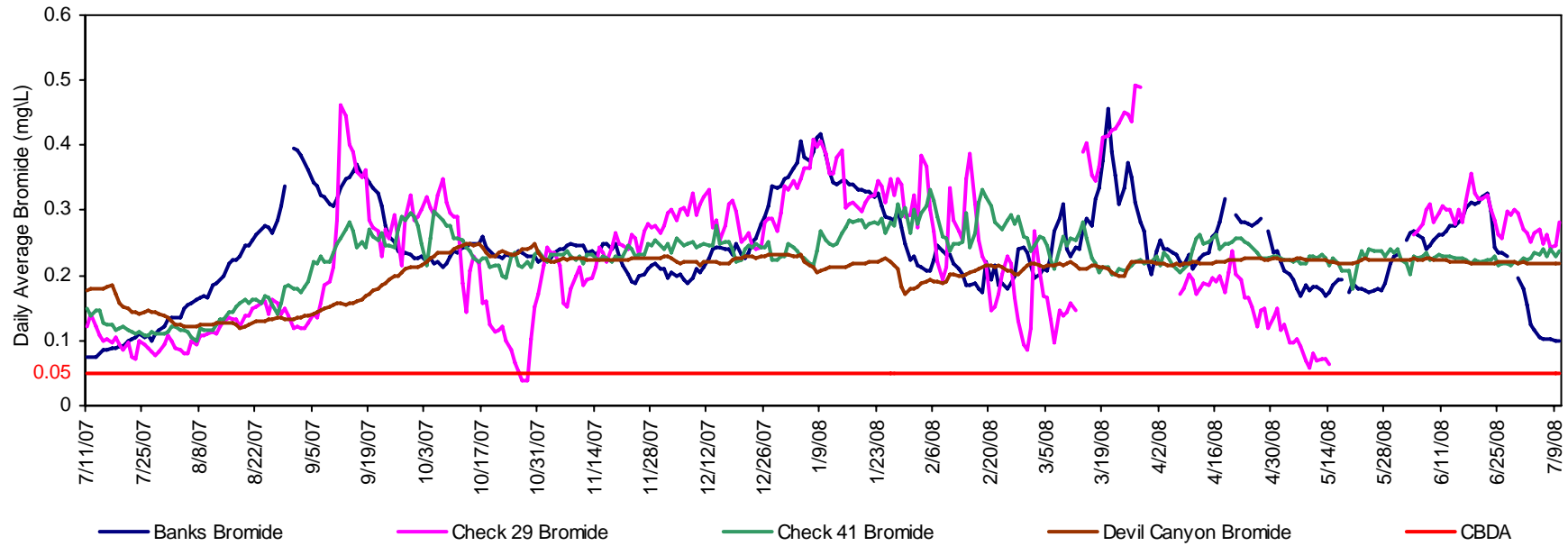
## California Aqueduct - Calculated Total Dissolved Solids



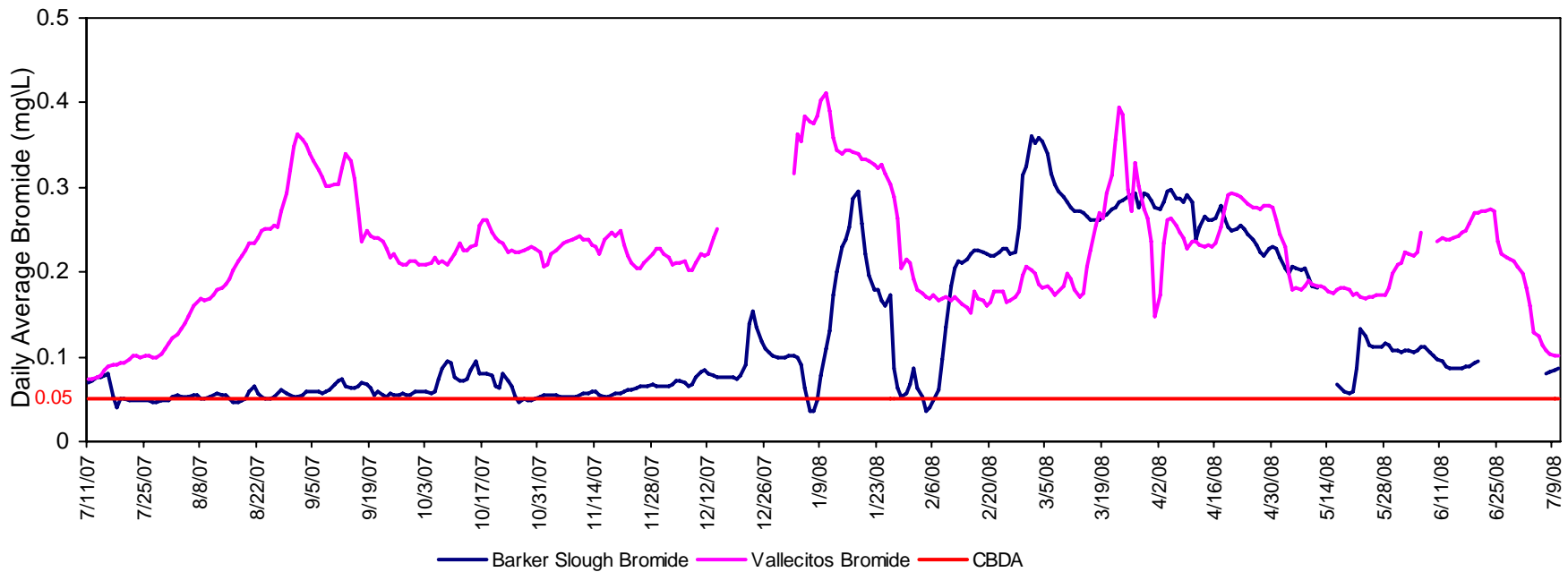
## North and South Bay Aqueduct - Calculated Total Dissolved Solids



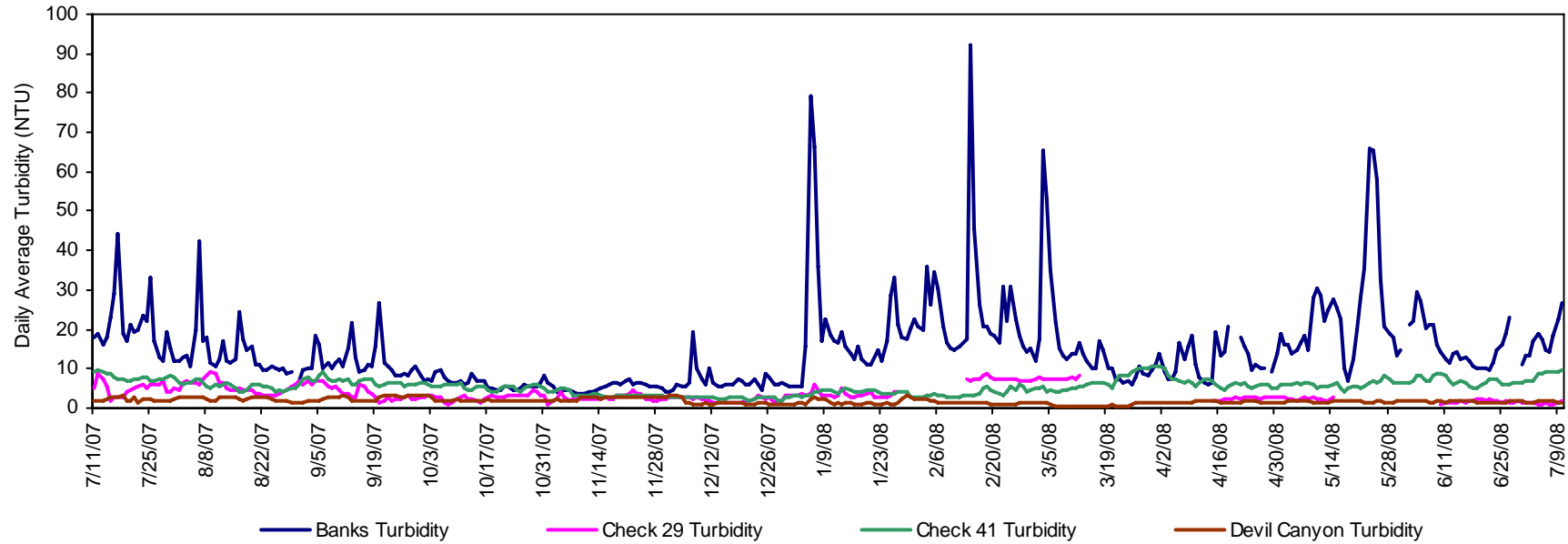
California Aqueduct - Calculated Bromide



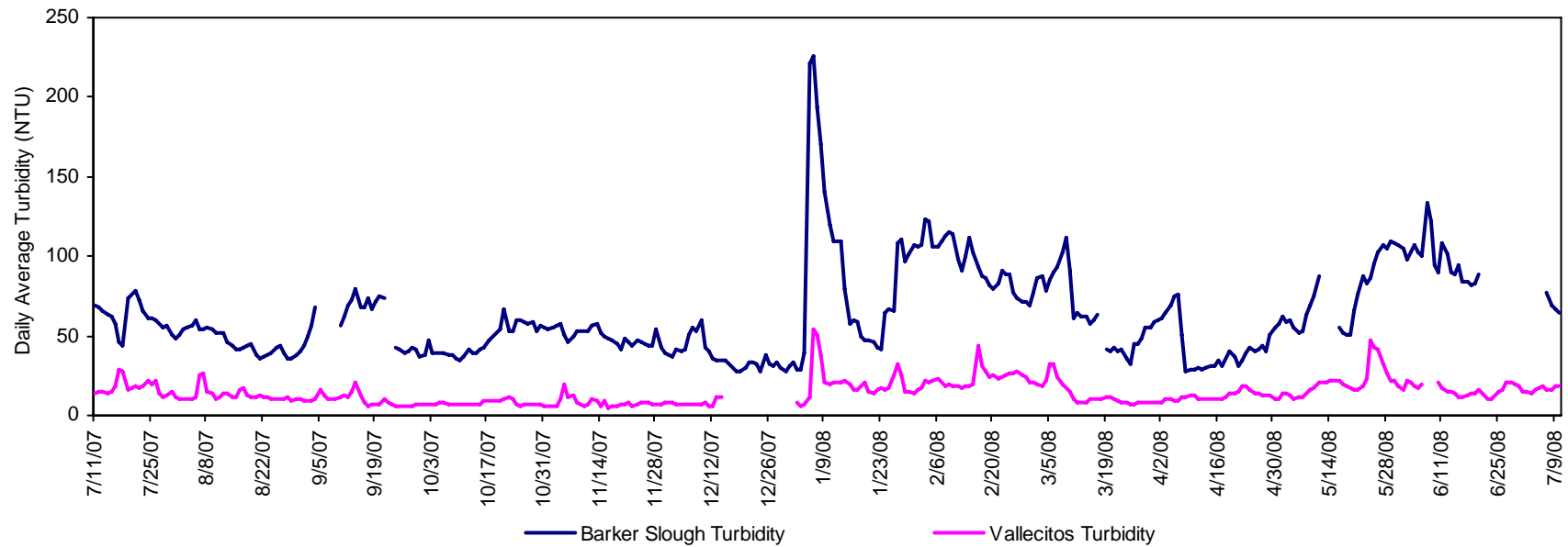
North and South Bay Aqueduct - Calculated Bromide



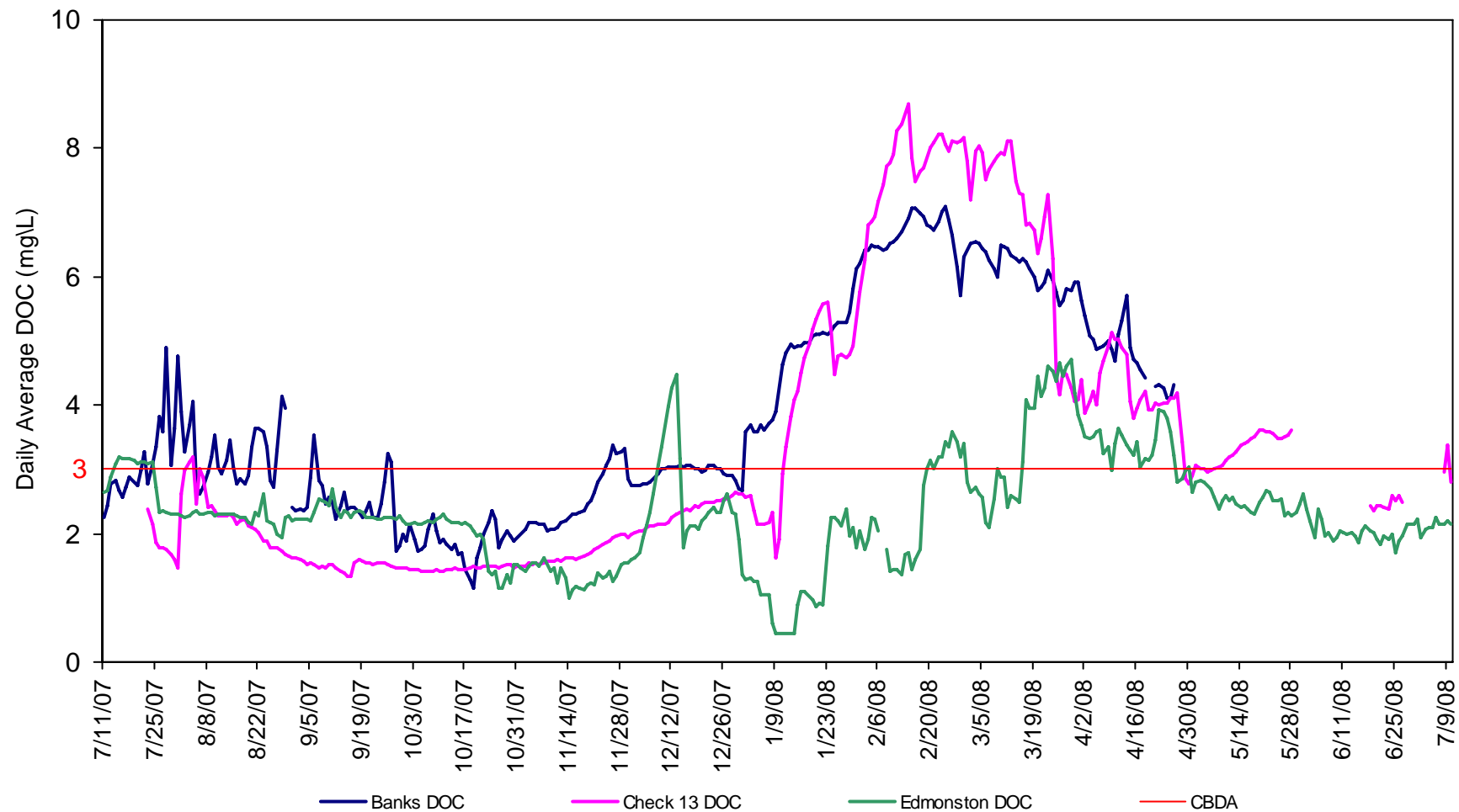
### California Aqueduct - Turbidity



### North and South Bay Aqueduct - Turbidity



# California Aqueduct Calculated Dissolved Organic Carbon



# SWP Water Quality Report

## DWR Operations & Maintenance Water Quality Automated Station Data from June 11 to July 9, 2008

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45
EC (µS/cm)	733**	average	478	563	489	481	278	464		
		6/11/08	534	586	495	485	291	508		
		7/9/08	302	514	493	478	271	304		
Bromide (mg/L)	0.05*	average	0.23	0.29	0.23	0.22	0.09	0.21		
		6/11/08	0.26	0.31	0.23	0.22	0.10	0.24		
		7/9/08	0.10	0.25	0.23	0.22	0.08	0.10		
Turbidity (NTU)		average	14	2	7	2	86	16		
		6/11/08	13	1	8	1	108	18		
		7/9/08	23	1	9	1	67	18		
DOC (mg/L)	3.0*	average	***						2.6	2.0
		6/11/08							4.2	2.0
		7/9/08							3.4	2.2
Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	7/7/08	2	6	3		2	8		3	2
Geosmin (ng/L)	7/7/08	9	6	3		6	24		ND	6

\*CBDA Objective

\*\*Article 19 Monthly Average (converted from 440 mg/L to 733µS/cm)

\*\*\*No data due to a faulty UVA mete

ND = Non-detect